

*Handwritten signature*

Sequence Listing.txt  
SEQUENCE LISTING

<110> Hong Kong University of Science & Technology  
Hsiao, Win-Luan  
Wong, Sze-Chuen

<120> Plasma or Serum Marker and Process for Detection of Cancer

<130> 32144183-000004

<140> US 10/516,864  
<141> 2003-06-27

<150> US 60/392,191  
<151> 2002-06-28

<160> 13

<170> PatentIn version 3.3

<210> 1  
<211> 3697  
<212> DNA  
<213> Homo sapiens

<400> 1  
cccacgcgtc cgggcagcag cggtggcccc gccccgggag cggagagcga ggggaggcgg 60  
agacggagga aggtctgagg agcagcttca gtccccgccg agccgccacc gcaggtcgag 120  
gacggtcgga ctcccgcggc gggaggagcc tgttcccctg agggatattt aagtatacca 180  
tacaactgtt ttgaaaatcc agcgtggaca atggctactc aagctgattt gatggagttg 240  
gacatggcca tggaaccaga cagaaaagcg gctgttagtc actggcagca acagtcttac 300  
ctggactctg gaatccattc tggtgccact accacagctc cttctctgag tggtaaaggc 360  
aatcctgagg aagaggatgt ggatacctcc caagtcctgt atgagtggga acagggattt 420  
tctcagtcct tcaactcaaga acaagtagct gatattgatg gacagtatgc aatgactcga 480  
gctcagaggg tacgagctgc tatgttccct gagacattag atgagggcat gcagatccca 540  
tctacacagt ttgatgctgc tcatcccact aatgtccagc gtttggtga accatcacag 600  
atgctgaaac atgcagttgt aaacttgatt aactatcaag atgatgcaga acttgccaca 660  
cgtgcaatcc ctgaactgac aaaactgcta aatgacgagg accaggtggt ggttaataag 720  
gctgcagtta tgggtccatca gctttctaaa aaggaagctt ccagacacgc tatcatgcgt 780  
tctcctcaga tgggtgctgc tattgtacgt accatgcaga atacaaatga ttagaaaca 840  
gctcgttgta ccgctgggac cttgcataac ctttcccatc atcgtgaggg cttactggcc 900  
atctttaagt ctggaggcat tcctgccctg gtgaaaatgc ttggttcacc agtggattct 960  
gtgttgtttt atgccattac aactctccac aaccttttat tacatcaaga aggagctaaa 1020  
atggcagtcg gtttagctgg tgggctgcag aaaatggttg cttgctcaa caaaacaaat 1080  
gttaaattct tggctattac gacagactgc cttcaaattt tagcttatgg caaccaagaa 1140

# Sequence Listing.txt

agcaagctca	tcatactggc	tagtggtgga	ccccaagctt	tagtaaatat	aatgaggacc	1200
tatacttacg	aaaaactact	gtggaccaca	agcagagtgc	tgaagggtgct	atctgtctgc	1260
tctagtaata	agccggctat	tgtagaagct	ggtggaatgc	aagctttagg	acttcacctg	1320
acagatccaa	gtcaacgtct	tgttcagaac	tgtctttgga	ctctcaggaa	tctttcagat	1380
gctgcaacta	aacaggaagg	gatggaaggt	ctccttgga	ctcttggtca	gcttctgggt	1440
tcagatgata	taaatgtggt	cacctgtgca	gctggaattc	tttctaacct	cacttgcaat	1500
aattataaga	acaagatgat	ggtctgccaa	gtgggtggta	tagaggctct	tgtgcgtact	1560
gtccttcggg	ctgggtgacag	ggaagacatc	actgagcctg	ccatctgtgc	tcttcgtcat	1620
ctgaccagcc	gacaccaaga	agcagagatg	gcccagaatg	cagttcgctt	tcactatgga	1680
ctaccagttg	tggttaagct	cttacaccca	ccatccctact	ggcctctgat	aaaggctact	1740
gttggttgga	ttcgaatct	tgccctttgt	cccgaatc	atgcaccttt	gcgtgagcag	1800
ggtgccattc	cacgactagt	tcagttgctt	gttcgtgcac	atcaggatac	ccagcgccgt	1860
acgtccatgg	gtgggacaca	gcagcaattt	gtggaggggg	tccgcatgga	agaaatagtt	1920
gaaggttgta	ccggagccct	tcacatccta	gctcgggatg	ttcacaaccg	aattgttatc	1980
agaggactaa	ataccattcc	attgtttgtg	cagctgcttt	attctcccat	tgaaaacatc	2040
caaagagtag	ctgcaggggt	cctctgtgaa	cttgctcagg	acaaggaagc	tgcagaagct	2100
attgaagctg	agggagccac	agctcctctg	acagagttac	ttcactctag	gaatgaaggt	2160
gtggcgacat	atgcagctgc	tgttttgttc	cgaatgtctg	aggacaagcc	acaagattac	2220
aagaaacggc	tttcagttga	gctgaccagc	tctctcttca	gaacagagcc	aatggcttgg	2280
aatgagactg	ctgatcttgg	acttgatatt	ggtgcccagg	gagaacccct	tggatatcgc	2340
caggatgatc	ctagctatcg	ttcttttcac	tctggtggat	atggccagga	tgcttgggt	2400
atggacccca	tgatggaaca	tgagatgggt	ggccaccacc	ctggtgctga	ctatccagtt	2460
gatgggctgc	cagatctggg	gcatgcccag	gacctcatgg	atgggctgcc	tccaggtgac	2520
agcaatcagc	tggcctgggt	tgatactgac	ctgtaaataca	tccttttaggt	aagaagtttt	2580
aaaaagccag	tttgggtaaa	atacttttac	tctgcctaca	gaacttcaga	aagacttgggt	2640
tggtaggggtg	ggagtgggtt	aggctatttg	taaatctgcc	acaaaaacag	gtatatactt	2700
tgaaaggaga	tgtcttgga	cattggaatg	ttctcagatt	tctggttggt	atgtgatcat	2760
gtgtggaagt	tattaacttt	aatgtttttt	gccacagctt	ttgcaactta	atactcaaat	2820
gagtaacatt	tgctgtttta	aacattaata	gcagcctttc	tctctttata	cagctgtatt	2880
gtctgaactt	gcattgtgat	tggcctgtag	agttgctgag	agggctcgag	gggtgggctg	2940
gtatctcaga	aagtgcctga	cacactaacc	aagctgagtt	tcctatggga	acaattgaag	3000

## Sequence Listing.txt

taaacttttt	gttctggtcc	tttttggtcg	aggagtaaca	atacaaatgg	attttgggag	3060
tgactcaaga	agtgaagaat	gcacaagaat	ggatcacaag	atggaattta	gcaaacccta	3120
gccttgcttg	ttaaaatttt	tttttttttt	ttttaagaat	atctgtaatg	gtactgactt	3180
tgcttgcttt	gaagtagctc	tttttttttt	tttttttttt	ttttttttgc	agtaactggt	3240
ttttaagtct	ctcgtagtgt	taagttatag	tgaatactgc	tacagcaatt	tctaattttt	3300
aagaattgag	taatggtgta	gaacactaat	taattcataa	tcactctaata	taattgtaat	3360
ctgaataaag	tgtaacaatt	gtgtagcctt	tttgataaaa	atagacaaat	agaaaatggt	3420
ccaattagtt	tcctttttta	tatgcttaaa	ataagcaggt	ggatctatit	catgtttttg	3480
atcaaaaact	atttgggata	tgtatgggta	gggtaaaatca	gtaagaggtg	ttatttgga	3540
ccttgttttg	gacagtttac	cagttgcctt	ttatcccaaa	gttggtgtaa	cctgctgtga	3600
tacgatgctt	caagagaaaa	tgcggttata	aaaaatggtt	cagaattaaa	cttttaattc	3660
attcaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa			3697

<210> 2  
 <211> 3778  
 <212> DNA  
 <213> Homo sapiens

<400> 2						
ccatttcctc	ctcctagccg	gactggaggg	agacaaagca	gcgcccgtct	gcttcggggc	60
tctggaattt	agcgtctgcc	cagctagccg	cagaaatgac	tgctgtccat	gcaggcaaca	120
taaacttcaa	gtgggatcct	aaaagtctag	agatcaggac	tctggcagtt	gagagactgt	180
tggagcctct	tgttacacag	gttacaaccc	ttgtaaacac	caatagtaaa	gggccctcta	240
ataagaagag	aggtcgttct	aagaaggccc	atgttttggc	tgcatctggt	gaacaagcaa	300
ctgagaattt	cttggaagaag	ggggataaaa	ttgcgaagga	gagccagttt	ctcaaggagg	360
agcttggtgg	tgctgtagaa	gatgttcgaa	aacaagggtga	tttgatgaag	gctgctgcag	420
gagagttcgc	agatgatccc	tgctcttctg	tgaagcgagg	caacatgggt	cgggcagctc	480
gagctttgct	ctctgctggt	acccggttgc	tgattttggc	tgacatggca	gatgtctaca	540
aattacttgt	tcagctgaaa	gttggtggaag	atggtatctt	gaagttgagg	aatgctggca	600
atgaacaaga	cttaggaatc	cagtataaag	ccctaaaacc	tgaagtggat	aagctgaaca	660
ttatggcagc	caaaagacaa	caggaattga	aagatgttgg	ccatcgtgat	cagatggctg	720
cagctagagg	aatcctgcag	aagaacgttc	cgatcctcta	tactgcatcc	caggcatgcc	780
tacagcacc	tgatgtcgca	gcctataagg	ccaacagggga	cctgatatac	aagcagctgc	840
agcaggcggg	cacaggcatt	tccaatgcag	cccaggccac	tgccctcagac	gatgcctcac	900
agcaccaggg	tggaggagga	ggagaactgg	catatgcact	caataacttt	gacaaacaaa	960

## Sequence Listing.txt

tcattgtgga	ccccttgagc	ttcagcgagg	agcgcttttag	gccttccctg	gaggagcgtc	1020
tggaaagcat	cattagtggg	gctgccttga	tggccgactc	gtcctgcacg	cgtgatgacc	1080
gtcgtgagcg	aattgtggca	gagtgtaatg	ctgtccgcca	ggccctgcag	gacctgcttt	1140
cggagtacat	gggcaatgct	ggacgtaaag	aaagaagtga	tgcactcaat	tctgcaatag	1200
ataaaatgac	caagaagacc	agggacttgc	gtagacagct	ccgcaaagct	gtcatggacc	1260
acgtttcaga	ttctttcctg	gaaaccaatg	ttccactttt	ggtattgatt	gaagctgcaa	1320
agaatggaaa	tgagaaagaa	gttaaggagt	atgcccgaag	tttccgtgaa	catgccaaca	1380
aattgattga	ggttgccaac	ttggcctgtt	ccatctcaaa	taatgaagaa	ggtgtaaagc	1440
ttgttcgaat	gtctgcaagc	cagttagaag	ccctctgtcc	tcaggttatt	aatgctgcac	1500
tggcttttagc	agcaaaacca	cagagtaaac	tggcccaaga	gaacatggat	ctttttaaag	1560
aacaatggga	aaaacaagtc	cgtgttctca	cagatgctgt	cgatgacatt	acttccattg	1620
atgacttctt	ggctgtctca	gagaatcaca	ttttggaaga	tgtgaacaaa	tgtgtcattg	1680
ctctccaaga	gaaggatgtg	gatggcctgg	accgcacagc	tgggtgaatt	cgaggccggg	1740
cagcccgggt	cattcacgta	gtcacctcag	agatggacaa	ctatgagcca	ggagtctaca	1800
cagagaaggt	tctggaagcc	actaagctgc	tctccaacac	agtcatgcca	cgttttactg	1860
agcaagtaga	agcagccgtg	gaagccctca	gctcggaccc	tgccagccc	atggatgaga	1920
atgagtttat	cgatgcttcc	cgcttggtat	atgatggcat	ccgggacatc	aggaaagcag	1980
tgctgatgat	aaggacccct	gaggagttag	atgactctga	ctttgagaca	gaagattttg	2040
atgtcagaag	caggacgagc	gtccagacag	aagacgatca	gctgatagct	ggccagagtg	2100
cccgggcat	catggctcag	cttccccagg	agcaaaaagc	gaagattgcg	gaacagggtg	2160
ccagcttcca	ggaagaaaag	agcaagctgg	atgctgaagt	gtccaaatgg	gacgacagtg	2220
gcaatgacat	cattgtgctg	gccaagcaga	tgtgcatgat	tatgatggag	atgacagact	2280
ttacccgagg	taaaggacca	ctcaaaaata	catcggtatg	catcagtgtc	gccaagaaaa	2340
ttgctgaggc	aggatccagg	atggacaagc	ttggccgcac	cattgcagac	cattgccccg	2400
actcggcttg	caagcaggac	ctgctggcct	acctgcaacg	catcgccctc	tactgccacc	2460
agctgaacat	ctgcagcaag	gtcaaggccg	aggtgcagaa	tctcggcggg	gagcttggtg	2520
tctctggggg	ggacagcgcc	atgtccctga	tccaggcagc	caagaacttg	atgaatgctg	2580
tgggtgcagac	agtgaaggca	tcctacgtcg	cctctaccaa	ataccaaaag	tcacagggtg	2640
tggcttccct	caaccttcct	gctgtgtcat	ggaagatgaa	ggcaccagag	aaaaagccat	2700
tgggtgaagag	agagaaacag	gatgagacac	agaccaagat	taaacgggca	tctcagaaga	2760
agcacgtgaa	cccgggtgag	gccctcagcg	agttcaaagc	tatggacagc	atctaagtct	2820
gcccaggccg	gccgccccca	cccctcgggg	ctcctgaata	tcagtcaactg	ttcgtcactc	2880

## Sequence Listing.txt

```

aatgaatgtt gctaaatata acactgatac tagattccac agggaaatgg gcagactgaa 2940
ccagtcaggg tggatgaatgt tccaagaaca tagtttaagt tgattaaaaa tgcttttaga 3000
atgcaggagc ctacttctag ctgtattttt tgtatgctta aataaaaaata aaaattcata 3060
accaaagaga atccccacatt agcttggttag taatgctctg accaagccga gatgcccatt 3120
ctcttagtga tggcggcggt aggggttgag agaaggggaat ttggctcaac ttcagttgag 3180
agggtgcagt ccagacagct tgactgcttt taaatgacca aagatgacct gtggtgaagca 3240
acctgggcat cttaggaagc agtccctgga gaaggcatgt tcccagaaag gtctctggag 3300
ggacaaactc actcagtaaa acataatgta tcatgaagaa aactgattct ctatgacatg 3360
aatgaaaat tttaatgcat tgttataatt actaatgtac gctgctgcag gacattaata 3420
aagttgcttt tttaggctac agtgctcga tgccataatc agaacacact ttttttcctc 3480
tttctcccag cttcaaatgc aaattcatca ttgggctcac ttctaataac tgcagtgttt 3540
cccgcttgg gcttgagca gaaaaacctg acaacatagt gtttgctaag gcagtaatgt 3600
agactttacc ttatttgtga ttactgtagt gattgattga ttgattacta ttaactacaa 3660
ggtataatgt actatcacct tatttaaat ttatgaatta atttgaatgt tttttacact 3720
aactaacttt tccaataaaa gtccactatg aaaccacgac aaaaaaaaaa aaaaaaaa 3778

```

```

<210> 3
<211> 4828
<212> DNA
<213> Homo sapiens

```

```

<400> 3
agtggcgtcg gaactgcaaa gcacctgtga gcttgcgga gtcagttcag actccagccc 60
gctccagccc ggcccagccc gaccgcaccc ggcgctgcc ctgctcggc gtccccggcc 120
agccatgggc ccttggagcc gcagcctctc ggcgctgctg ctgctgctgc aggtctcctc 180
ttggctctgc caggagccgg agccctgcca ccctggcttt gacgccgaga gctacacgtt 240
cacggtgccc cggcgccacc tggagagagg ccgcgtcctg ggcagagtga attttgaaga 300
ttgcaccggt cgacaaagga cagcctatgt ttccctcgac acccgattca aagtgggcac 360
agatggtgtg attacagtca aaaggcctct acggtttcat aaccacaga tccatttctt 420
ggtctacgcc tgggactcca cctacagaaa gttttccacc aaagtcacgc tgaatacagt 480
ggggcaccac caccgcccc cgccccatca ggcctccgtt tctggaatcc aagcagaatt 540
gctcacatgt cccaactcct ctctggcct cagaagacag aagagagact gggttattcc 600
tcccatcagc tgcccagaaa atgaaaaagg ccatttcct aaaaacctgg ttcagatcaa 660
atccaacaaa gacaaagaag gcaagggttt ctacagcatc actggccaag gagctgacac 720
accccctgtt ggtgtcttta ttattgaaag agaaacagga tggctgaagg tgacagagcc 780

```

## Sequence Listing.txt

tctggataga	gaacgcattg	ccacatacac	tctcttctct	cacgctgtgt	catccaacgg	840
gaatgcagtt	gaggatccaa	tggagatttt	gatcacggta	accgatcaga	atgacaacaa	900
gcccgaattc	acccaggagg	tctttaaggg	gtctgtcatg	gaagggtgctc	ttccaggaac	960
ctctgtgatg	gaggtcacag	ccacagacgc	ggacgatgat	gtgaacacct	acaatgccgc	1020
catcgcttac	accatcctca	gccaagatcc	tgagctccct	gacaaaaata	tgttcaccat	1080
taacaggaac	acaggagtca	tcagtgtggt	caccactggg	ctggaccgag	agagtttccc	1140
tacgtatacc	ctggtgggttc	aagctgctga	ccttcaaggt	gaggggttaa	gcacaacagc	1200
aacagctgtg	atcacagtca	ctgacaccaa	cgataatcct	ccgatcttca	atcccaccac	1260
gtacaagggg	caggtgcctg	agaacgaggc	taacgtcgta	atcaccacac	tgaaagtgac	1320
tgatgctgat	gcccccaata	ccccagcgtg	ggaggctgta	tacaccatat	tgaatgatga	1380
tggtggacaa	tttgtcgtca	ccacaaatcc	agtgaacaac	gatggcattt	tgaaaacagc	1440
aaagggcttg	gattttgagg	ccaagcagca	gtacattcta	cacgtagcag	tgacgaatgt	1500
ggtacctttt	gagggtctctc	tcaccacctc	cacagccacc	gtcaccgtgg	atgtgctgga	1560
tgtgaatgaa	gcccccatct	ttgtgcctcc	tgaaaagaga	gtggaagtgt	ccgaggactt	1620
tggcgtgggc	caggaaatca	catcctacac	tgcccaggag	ccagacacat	ttatggaaca	1680
gaaaataaca	tatcggattt	ggagagacac	tgccaactgg	ctggagatta	atccggacac	1740
tggtgccatt	tccactcggg	ctgagctgga	cagggaggat	tttgagcacg	tgaagaacag	1800
cacgtacaca	gccctaataca	tagctacaga	caatggttct	ccagttgcta	ctggaacagg	1860
gacacttctg	ctgatcctgt	ctgatgtgaa	tgacaacgcc	cccataccag	aacctcgaac	1920
tatatctctc	tgtgagagga	atccaaagcc	tcaggtcata	aacatcattg	atgcagacct	1980
tcctcccaat	acatctccct	tcacagcaga	actaacacac	ggggcgagtg	ccaactggac	2040
cattcagtac	aacgacccaa	ccaagaatc	tatcattttg	aagccaaaga	tggccttaga	2100
ggtgggtgac	tacaaaatca	atctcaagct	catggataac	cagaataaag	accaagtgac	2160
caccttagag	gtcagcgtgt	gtgactgtga	aggggccgcc	ggcgtctgta	ggaaggcaca	2220
gcctgtcgaa	gcaggattgc	aaattcctgc	cattctgggg	attcttgagg	gaattcttgc	2280
tttgctaatt	ctgattctgc	tgctcttgct	gtttcttcgg	aggagagcgg	tggtcaaaga	2340
gcccttactg	ccccagagg	atgacacccg	ggacaacggt	tattactatg	atgaagaagg	2400
aggcggagaa	gaggaccagg	actttgactt	gagccagctg	cacagggggc	tggaacgctc	2460
gcctgaagtg	actcgtaacg	acgttgacc	aacctcatg	agtgtcccc	ggtatcttcc	2520
ccgccctgcc	aatccccgatg	aaattggaaa	ttttattgat	gaaaatctga	aagcggctga	2580
tactgacccc	acagccccgc	cttatgattc	tctgctcgtg	tttgactatg	aaggaagcgg	2640

## Sequence Listing.txt

ttccgaagct gctagtctga gctccctgaa ctcctcagag tcagacaaaag accaggacta	2700
tgactacttg aacgaatggg gcaatcgctt caagaagctg gctgacatgt acggaggcgg	2760
cgaggacgac taggggactc gagagaggcg ggccccagac ccatgtgctg ggaaatgcag	2820
aaatcacgtt gctgggtggtt tttcagctcc cttcccttga gatgagtttc tggggaaaaa	2880
aaagagactg gttagtgatg cagttagtat agctttatatac tctctccact ttatagctct	2940
aataagtttg tgtagaaaaa gtttcgactt atttcttaaa gctttttttt ttttcccatc	3000
actctttaca tgggtggtgat gtccaaaaga tacccaaatt ttaatatcc agaagaacaa	3060
cttagcatc agaaggttca cccagcacct tgcagatttt ctttaaggaat tttgtctcac	3120
ttttaaaaag aaggggagaa gtcagctact ctagttctgt tgttttgtgt atataatttt	3180
ttaaaaaaaa tttgtgtgct tctgctcatt actacactgg tgtgtccctc tgcctttttt	3240
ttttttttta agacagggtc tcattctatc ggccaggctg gagtgcagtg gtgcaatcac	3300
agctcactgc agccttgtcc tcccaggctc aagctatcct tgcacctcag cctcccaagt	3360
agctgggacc acaggcatgc accactacgc atgactaatt ttttaaatat ttgagacggg	3420
gtctccctgt gttaccagg ctggtctcaa actcctgggc tcaagtgatc ctcccatctt	3480
ggcctcccag agtattggga ttacagacat gagccactgc acctgcccag ctccccaact	3540
ccctgccatt ttttaagaga cagtttcgct ccatacgcca ggctgggat gcagtgatgt	3600
gatcatagct cactgtaacc tcaaactctg gggctcaagc agttctccca ccagcctcct	3660
ttttattttt ttgtacagat ggggtcttgc tatgttgccc aagctggtct taaactcctg	3720
gcctcaagca atccttctgc cttggccccc caaagtgctg ggattgtggg catgagctgc	3780
tgtgcccagc ctccatgttt taatatcaac tctcactcct gaattcagtt gctttgccc	3840
agataggagt tctctgatgc agaaattatt gggctctttt agggtaagaa gtttgtgtct	3900
ttgtctggcc acatcttgac taggtattgt ctactctgaa gacctttaat ggcttcctc	3960
tttcatctcc tgagtatgta acttgcaatg ggcagctatc cagtgacttg ttctgagtaa	4020
gtgtgttcat taatgtttat ttagctctga agcaagagtg atatactcca ggacttagaa	4080
tagtgccaa agtgctgcag ccaaagacag agcggaacta tgaaaagtgg gcttgagat	4140
ggcaggagag cttgtcattg agcctggcaa tttagcaaac tgatgctgag gatgattgag	4200
gtgggtctac ctcatctctg aaaattctgg aaggaatgga ggagtctcaa catgtgtttc	4260
tgacacaaga tccgtggttt gtactcaaag ccagaatcc ccaagtgcct gcttttgatg	4320
atgtctacag aaaatgctgg ctgagctgaa cacatttgcc caattccagg tgtgcacaga	4380
aaaccgagaa tattcaaaat tccaaatttt ttcttaggag caagaagaaa atgtggccct	4440
aaagggggtt agttgagggg tagggggtag tgaggatctt gatttgatc tctttttatt	4500
taaatgtgaa tttcaacttt tgacaatcaa agaaaagact tttgttgaaa tagctttact	4560

# Sequence Listing.txt

gtttctcaag tgttttggag aaaaaaatca accctgcaat cacttttttg aattgtcttg 4620  
 atttttcggc agttcaagct atatcgaata tagttctgtg tagagaatgt cactgtagtt 4680  
 ttgagtgtat acatgtgtgg gtgctgataa ttgtgtattt tctttggggg tggaaaagga 4740  
 aaacaattca agctgagaaa agtattctca aagatgcatt tttataaatt ttattaaaca 4800  
 attttgtaa accataaaaa aaaaaaaaa 4828

<210> 4  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Primer

<400> 4  
 atttgatgga gttggacatg g 21

<210> 5  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Primer

<400> 5  
 agctacttgt tcttgagtga a 21

<210> 6  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Primer

<400> 6  
 tgatttgatg gagttggaca t 21

<210> 7  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Primer

<400> 7  
 cattgcatac tgtccatcaa t 21

<210> 8  
 <211> 21  
 <212> DNA



# Sequence Listing.txt

<213> Artificial

<220>

<223> Primer

<400> 8

aaatcgtgcg tgacattaag g

21

<210> 9

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 9

atgatggagt tgaaggtag t

21

<210> 10

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 10

tcaatgggtc atatcacaga t

21

<210> 11

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 11

ctgcattctg actttcagta a

21

<210> 12

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 12

cctctgcggt gccaaagcctc

20

<210> 13

<211> 22

<212> DNA

<213> Artificial

<220>

## Sequence Listing.txt

&lt;223&gt; Primer

&lt;400&gt; 13

tgtgggcaaa cttgtggtag ca

22